#### PATENT COOPERATION TREATY

INTERNATIONAL SEAR	CHING AUTI	IORITY	1			
To: CHARLES VORNDRAN THOMAS, KAYDEN, HORSTEMEYER & RISLEY, LLP 100 GALLERIA PARKWAY, SUITE 1750 ATLANTA, GA 30339			PCT WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY			
<u> </u>			Date of mailing (day/month/year)	1 0 IAN 2005		
Applicant's or agent's file reference			FOR FURTHER ACTION			
120701-2020		See paragraph 2 below				
International application No. Interna		International filing date	ate (day/month/year) Priority date (day/month/year)			
PCT/US04/20454		25 June 2004 (25.06.20		25 June 2003 (25.06.2003)		
International Patent Classi	fication (IPC)	or both national classifica	ation and IPC			
IPC(7): C12N 15/00, 15/0	9, 15/63, 15/	70, 15/74; C07H 21/02, 2	21/04 and US Cl.: 53	6/23.1; 435/320.1		
Applicant						
GENECIA CORPORATION	NC					
1 701:						
1. Inis opinion contains	indications rel	ating to the following iter	ns:	•		
Box No. I	Box No. I Basis of the opinion					
Box No. II	o. II Priority					
Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability					
Box No. IV	Lack of unity of invention					
Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
Box No. VI						
Box No. VII	$\cdot$					
Box No. VIII	·					
		wie miestiatio	apprountion			
International Prelimina Authority other than the	ational prelim ary Examining his one to be the	g Authority ("IPEA") ex	ccept that this does PEA has notified the	not apply where the applicant chooses an International Bureau under Rule 66.1bis(b) ered.		
IPEA a written reply	together, whe	ere appropriate, with am	endments, before the	EA, the applicant is invited to submit to the expiration of 3 months from the date of rity date, whichever expires later.		
For further options, see			-	•		
3. For further details, see	notes to Form	PCT/ISA/220.				
ame and mailing address (	of the ISA/ US		Authorized officer			
Mail Stop PCT, Attn: ISA/US			Konstantina Katcheves			
Commissioner for Patents P.O. Box 1450			Ton			
Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230			Telephone No. (703) 305-3388			

Form PCT/ISA/237 (cover sheet) (January 2004)

THOMAS, KAYDEN HORSTEMEYER & RISLEY, LLP.

# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US04/20454

Box No	o. I Basis of this opinion						
	regard to the language, this opinion has been established on the basis of the international application in the language in which s filed, unless otherwise indicated under this item.						
	This opinion has been established on the basis of a translation from the original language into the following language which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).						
	regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the ed invention, this opinion has been established on the basis of:						
<b>a</b> .	type of material						
	a sequence listing						
	table(s) related to the sequence listing						
b.	format of material						
	in written format						
	in computer readable form						
c.	time of filing/furnishing						
	contained in international application as filed.						
	filed together with the international application in computer readable form.						
	furnished subsequently to this Authority for the purposes of search.						
3. 🔀	In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.						
4. Additio	onal comments:						
OTTO DOTA	ISA/237(Box No. I) (January 2004)						

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US04/20454

NO

YES

NO

Box No. V Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
1. Statement						
Novelty (N)	Claims	1-113	YES			
	Claims	NONE	NO			
Inventive step (IS)	Claims	1-113	YES			

Claims NONE

Claims 1-113

Claims NONE

## 2. Citations and explanations:

Industrial applicability (IA)

Claims 1-113 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest the claimed polynucleotide, expression vector and kit comprising an organelle localization signal and a protein transduction domain and further comprising viral surface polypeptide.

Although regarding claims 1-4, both Chesnut et al. and Edenhoffer et al. teach the invention claimed, these Applications are published after the priority date of the present application and as such are inapplicable as prior art references.

Claims 1-113 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed can be made or used in industry.

Form PCT/ISA/237 (Box No. V) (January 2004)

#### **NOTES TO FORM PCT/ISA/220 (continued)**

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

## The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- 1. [Where originally there were 48 claims and after amendment of some claims there are 51]: "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- 2. [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- 3. [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
  - "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
  - "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

## "Statement under Article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

### It must be in the language in which the international application is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

## Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments and any accompanying statement, under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the time of filing the amendments (and any statement) with the International Bureau, also file with the International Preliminary Examining Authority a copy of such amendments (and of any statement) and, where required, a translation of such amendments for the procedure before that Authority (see Rules 55.3(a) and 62.2, first sentence). For further information, see the Notes to the demand form (PCT/IPEA/401).

### Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see the PCT Applicant's Guide, Volume II.

#### NOTESTOFORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under Article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article," "Rule" and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT. Administrative Instructions, respectively.

#### INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

### What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Preliminary Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When? Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

## Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

How? Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

## What documents must/may accompany the amendments?

#### Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.